

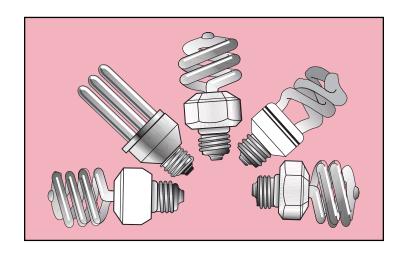
Buildings for the 21st Century

Buildings that are more energyefficient, comfortable, and affordable...that's the goal of DOE's Office of Building Technology, State and Community Programs (BTS). To accelerate the development and wide application of energy efficiency measures, BTS:

- Conducts R&D on technologies and concepts for energy efficiency, working closely with the building industry and with manufacturers of materials, equipment, and appliances
- Promotes energy/money saving opportunities to both builders and buyers of homes and commercial buildings
- Works with State and local regulatory groups to improve building codes, appliance standards, and guidelines for efficient energy use
- Provides support and grants to States and communities for deployment of energyefficient technologies and practices



SUBCOMPACT FLUORESCENT LAMPS: ENERGY-EFFICIENT, AFFORDABLE, AND EASY TO BUY



Introducing energy-efficient compact fluorescent lamps (CFLs) into your home, business, or energy-efficiency program just got easier. A group of lighting manufacturers are offering subcompact fluorescent lamps (sub-CFLs) through a Department of Energy (DOE) Program designed to bring new and shorter lamps to market. The sub-CFLs are energy-efficient and long lasting, plus they fit into most incandescent fixtures. Now they can be ordered directly from the manufacturer at very competitive prices.

To stimulate the market for sub-CFLs, suppliers are selling the lamps at specially arranged prices directly to volume buyers such as multi-family building owners/operators, universities, public housing authorities, hotel/motel companies, federal agencies, and lighting product resellers. The suppliers are offering 15- to 26-watt sub-CFLs for as low as \$5.75 including delivery. The sub-CFLs carry an unconditional one-year warranty – among the best in the industry.

The new, sub-CFLs:

- screw into conventional sockets and fit inside most existing fixtures, with lengths ranging from 4.7 to 5.8 inches
- produce enough light to replace standard 60- to 100-watt incandescent light bulbs, using onefourth to one-third as much energy
- ✓ last 8 to 10 times longer than incandescent light bulbs
- save more than \$15 per year on average for retrofitted applications used 12 hours per day, paying back their cost in 6 months.

The bulbs are available as a result of a technology procurement organized by DOE's Pacific Northwest National Laboratory (PNNL) for the Office of Building Technology, State and Community Programs. (Technology procurement is a method for speeding the market introduction of new technologies using competitive

SUBCOMPACT FLUORESCENT LAMPS

For more information about the DOE Office of Building Technology, State and Community Programs, contact:

Energy Efficiency and Renewable Energy Clearinghouse (EREC) 1-800-DOE-3732 www.eren.doe.gov/buildings

For Program and Product Information on the Web: http://www.pnl.gov/cfl

For product and ordering information:

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solicitations backed by large volume purchases.) PNNL signed agreements with companies that submitted the most attractive offers in an open competition to supply sub-CFLs for the program. The agreement entitles buyers to purchase sub-CFLs from three suppliers at the terms and prices negotiated by PNNL. The current suppliers are American Power Products, JKRL USA, Lights of America, and Sunpark Electronics Corporation.

Ordering sub-CFLs through this program is easy. Visit our web site at www.pnl.gov/cfl or contact one of our suppliers directly at the toll-free numbers listed below.

- American Power Products 1-800-533-2929
- ✓ JKRL USA 1-877-543-6127
- Lights of America 1-800-876-0660
- ✓ SunPark Electronics Corporation 1-888-478-6775

Use this graph to estimate how much money you will save in one year by replacing one socket containing a 75-watt incandescent light bulb with a 20-watt screw-in sub-CFL.

Determine your average electricity rate - contact your utility company or refer to your electric bills to get the total electricity cost (excluding fixed charges) and number of kilowatt hours (kWh) used for a typical month. Divide the total electricity cost by the total number of kWh. Multiply this number by 100 to determine cents/kWh, giving you an average electricity rate for that month.

- ✓ Estimate whether your lights are on 6, 12, or 24 hours/day.
- Select the horizontal axis that reflects your average electricity rate, move up to the 6-, 12-, or 24-hour line, then estimate your first-year savings from the appropriate vertical axis. For example, if your electricity cost averages 8.1 cents/kWh and your exterior lights are on 12 hours/ day, your first-year savings is \$20.
- ✓ Using this example, you will save \$20 on your electric bill for one socket over one year. If the cost of a 20-watt sub-CFL is \$8, you can use the \$20 savings to pay for the sub-CFL and still have \$12 left over. At 12 hours/day, most sub-CFLs will last into the third year before burning out. Thus, the \$20 saved during the second year is all profit, bringing the total savings over the two-year period to \$32. Labor savings due to the much lower frequency of lamp replacement will increase these savings.

Estimated First Year Savings – 20W Sub-CFL Screw-In

